

**BC  
BT**  
RIDE WITH US

**BAR MANUAL**



[www.bestkiteboarding.com](http://www.bestkiteboarding.com)



# BEST KITEBOARDING

## USER MANUAL

**Thank you** for purchasing a Best kite. Please read this manual carefully and in its entirety before using your new Best kite.

### WARNING

Kiteboarding/kitesurfing/snowkiting are extreme sports. They have numerous inherent risks and dangers, and pose substantial risk of cuts, scrapes, bruises, broken bones, loss of limbs, loss of vision, paralysis, and other serious, permanent and disabling injuries and death to the rider and others. Some of the sources of these risks include but are not limited to:

- Being lifted by the kite and then dropped or slammed into the ground, snow, trees, rocks, buildings, piers, jetties and/or other structures or surfaces.
- Being dropped or slammed into other people and/or property.
- Contact with kite lines under tension, and/or watercraft.
- Drowning.
- Underwater conditions and/or objects such as sharp shells, broken glass, sand bars, shoals, reefs, oyster beds, and/or concrete.
- Contact with sea life such as sting rays, sharks, sea turtles, jelly fish, etc.
- Weather conditions and/or changes in weather conditions such as increasing or decreasing wind, waves, updrafts, lightning and/or water spouts.
- Equipment performance. Kiteboarding is a new sport. Kiteboarding equipment and safety gear are NOT 100% reliable. Safety designs and features are often new and unproven. Kites may behave unfavorably and unpredictably. Lines can twist, tangle, or break, resulting in serious injury and/or loss of control of the kite.

When using this product, you are responsible for your own safety and the safety of others around you. Never use this product as a flying device. Never touch flying lines when the kite is in use.

### RELEASE OF LIABILITY AND ASSUMPTION OF RISK

DO NOT USE THIS PRODUCT UNLESS YOU AGREE WITH THE

FOLLOWING TERMS AND CONDITIONS:

Before using this product, the purchaser/user has carefully reviewed, understood and agrees to comply with the terms of this User Manual. Use of this product and any of its components involves certain inherent risks, dangers and hazards, which can result in serious personal injury or death. The purchaser/user of this product understands that the seller is not responsible for any damage to property or injury caused by negligent operation of this product by the purchaser/user, and the purchaser/user releases the seller from all such liability. In the event of your death or incapacity, this Agreement shall be effective and binding upon your heirs, next of kin, executors, administrators, assigns and representatives.

The purchaser/user of this product expressly assumes the risk of any and all bodily injury, death and/or liability which may result from the purchaser or user's participation in kiteboarding. The purchaser/user agrees to hold Ride Best, LLC harmless from any and all liability, and waive and release any and all claims or potential claims against Ride Best, LLC and any of its respective agents, affiliates, subsidiaries, employees, instructors, officers, directors, shareholders, suppliers and manufacturers in the event of any such bodily injury or death which may result from the purchase and/or use of Ride Best LLC (d/b/a Best Kiteboarding) products.

## 2012 RP-Bar V2 Description:



The Red-Line Performance bar combines everyone's favorite features and safety options into one unbeatable bar. Simple enough for anyone to understand, yet with enough versatility to satisfy even the most demanding riders, it's guaranteed to set the standard yet again this season

The push-to-release QR now comes in a *Pro-cuff* version to eliminate accidental releases- without increasing the minimum release tension. With only one moving part, the *Pro-cuff QR* is easy to reassemble and designed to work consistently with a positive release action with release loads in excess of 150kgs.

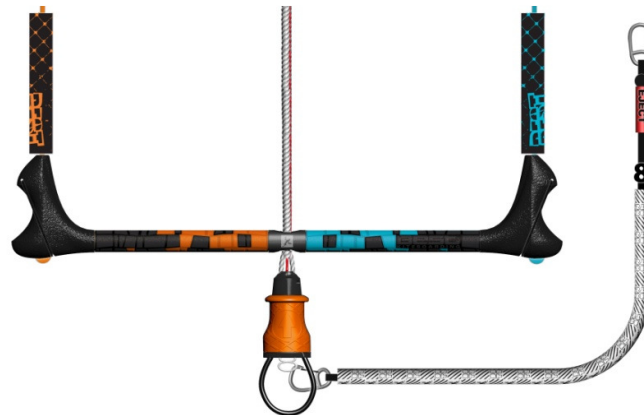
The under bar swivel has been improved with added drainage vents and low profile twist-tabs making it smoother to turn no matter how many loops you've thrown. Depower line wear is eliminated with the introduction of our new *Sacrifice Insert System* of replaceable low friction Delrin bar center inserts.

The RP-Bar v2 retains the dual center depower lines, stopper ball, Redline and suicide safety options of the previous performance bar. The v2 is the perfect bar for riders of all levels who demand the most reliable and predictable safety system options and ease of use features.

New ultra soft, low profile molded bar ends with integral line winders help make those one handed loops easier than you expected and a new 3D grip pattern ensures you stay in contact with the bar however you ride.

Low stretch, 700lb rated, flying lines, color coded for easy setup and proven to offer incredible durability complete the RP-Bar v2 package- it's our most complete bar yet.

## GP-Bar Description:



The GP-Bar takes the best of the Redline Performance Bar, strengthens and simplifies it to leave only the features that every freestyle competition rider absolutely must have.

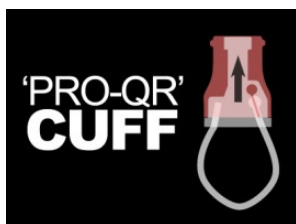
Our *Pro-cuff* push-to-release QR sets the standard for ease of use and serviceability; all parts are available as spares so you can keep riding forever. The outer cuff has been modified to eliminate the possibility of accidental releases without increasing the minimum release load. The under bar swivel has been improved with added drainage vents and low profile *twist tabs* making it smoother to turn and easier to untwist your lines no matter how many loops you've thrown.

For the GP-Bar we've thickened the center line depower ropes and then braided them together to form the thickest and most durable center line you've ever had. Add this to our *Sacrifice-Insert-System* that lines the bar center with replaceable low friction Delrin inserts and you have the smoothest depower action available.

New padded *Big-Ass-Bar-Ends* with integral line winders help make those one handed loops easier than you expected and a new 3D grip pattern ensures you stay in contact with the bar no matter how aggressive your kite loops.

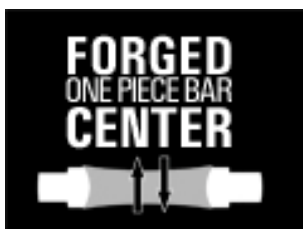
Low stretch flying lines have been upgraded with a rating over 700lbs, color coded for easy setup and proven to offer incredible durability. The GP-Bar is the toughest and most practical bar we've ever built; it's the unfair advantage we all need.

#### 2012 Bar Features:



##### **Pro-QR Cuff:**

A one piece, injection molded quick release with push-to-release outer-cuff ensures reliable and easy safety system activation. With no mechanical internal parts there's nothing to foul to inhibit safe operation. The *Pro-cuff* QR has a reduced contact lip at the top of the cuff to minimize false release from riding unhooked yet still delivers the same low activation pressure for safe function even under load.



##### **Forged Center:**

A drop forged alloy bar center gives you maximum strength between your hands. The new design also allows the EVA bar grip to run right up to the center hole, making unhooked kite control just that little bit more secure than before.



##### **Sacrifice Insert System:**

Replaceable, low friction Delrin bar inserts help eliminate center line wear. The undersides are shaped to give appositive locking fit with the under bar swivel



##### **The Big One- 8mm Depower Line: GP-Bar only**

We take two 4mm depower lines and braid them together to form The Big One an almost indestructible 8mm thick cable. With less line wear and smoother bar movement you'll instantly understand why *The Big One* is the shape of things to come.



##### **Big Ass Bar Ends:**

When we designed our new bars we used the strongest and lightest composite engineering plastics that we could find to help make the stiffest bar ends we had ever made. Then we took these marvels of lightweight engineering and buried them in the biggest, fattest, softest and most comfortable EVA bar end covers you'll ever smack yourself in the face with. They might not look like a skinny supermodel, but trust us- there's simply no substitute for cushion when you're pushing.



##### **Dual-Depower Stopper Ball: RP-Bar only**

Our 3 into 1 Dual-Depower stopper ball allows for all flying lines to pass through it so you can take the strain off your arms and still retain complete safety with our Redline system.



##### **Redline Safety Leash: RP-Bar only**

The Redline safety leash connects you directly to the front lines of your kite, allowing you to completely depower your kite. The Redline safety overrides the depower stopper ball automatically whenever you drop the bar or activate the *Pro-cuff* QR.



### 5th Line Safety: GP-Bar only

For competition riding you need a simple, dependable safety system, if you can combine that with fast and easy kite relaunch to help you maximize every session then even better. The GP-bar comes equipped with a 5<sup>th</sup> line safety system as standard to help you make the most of every session.



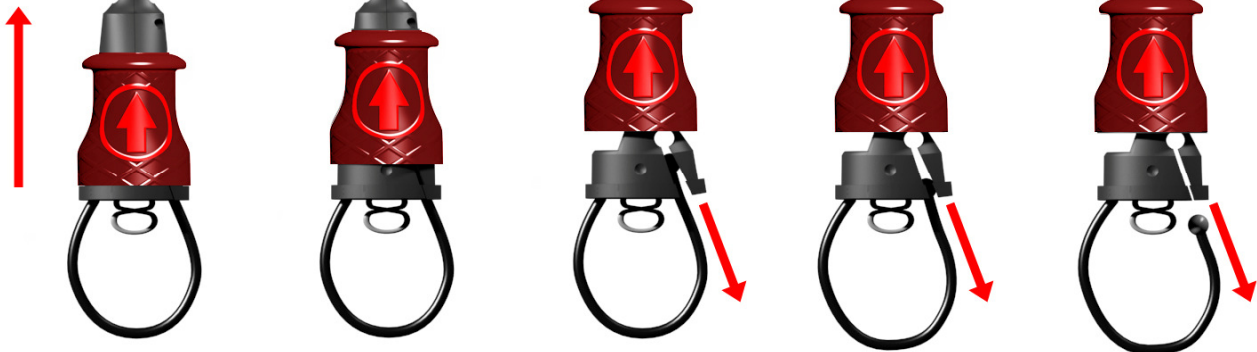
### 'Twist Tab' Under Bar Swivel:

A low friction swivel with new twist tabs makes untwisting your lines easier than ever before. Designed to be easy to clean the swivel is updated with flush through vents so it can be cleaned in seconds. Should you ever need to strip your swivel it can be disassembled in seconds and all parts are available as spares.

### How does the 'Pro-cuff' QR work?

The *Pro-cuff* QR is a push to release safety, simply push the cuff upwards and away from your body to activate. The chickenloop line is pulled out under the load of the flying lines. The Pro-cuff will only fully release when load is applied to the chicken loop line.

### PUSH UP CUFF TO ACTIVATE QUICK RELEASE



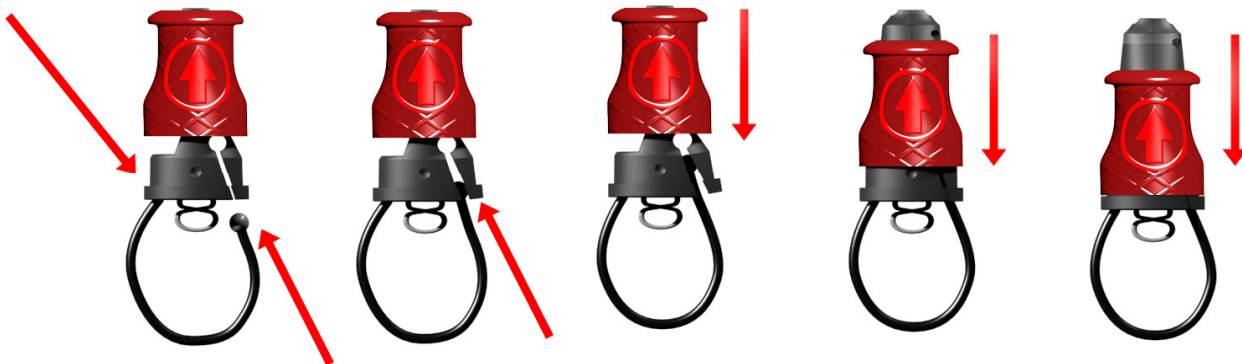
### CHICKENLOOP LINE PULLED OUT BY LOAD ON FRONT LINES

### How do I reload the Pro-cuff QR?

Hold the chickenloop in one hand so that the hinged section points towards your free hand, (hold in left hand in example). Take the chickenloop line and insert it into the channel on the underside of the chickenloop assembly, push upwards until the hinge closes. Then pull the cuff down over the main body of the assembly until you hear it click shut.

### 1. HOLD IN LEFT HAND

### 3. CLICK CUFF TO CLOSE

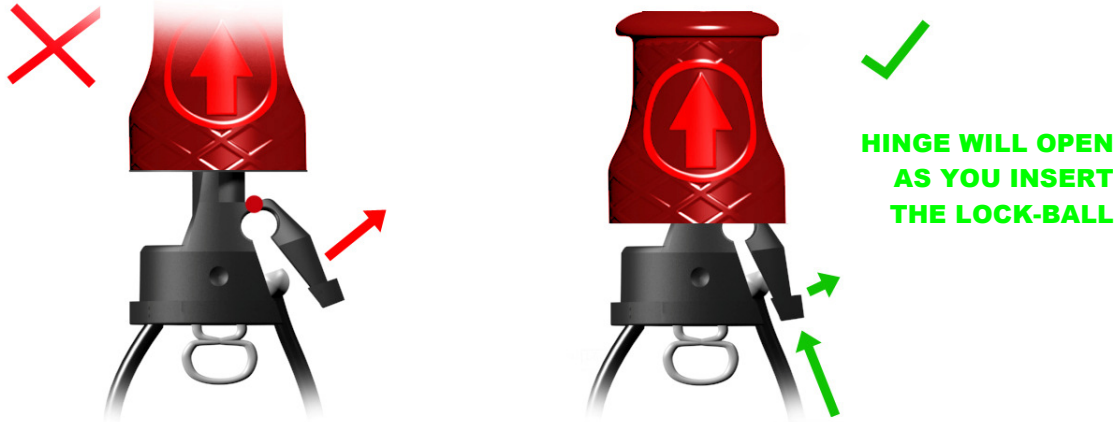


### 2. INSERT LOCK-BALL INTO HINGE AND PUSH HOME

The hinge design on the *Pro-cuff* QR can only be damaged by attempting to force the hinge open to re-insert the lock-ball. This is never necessary. Simply slide the lock-ball back into the QR to complete reassembly.

*BEST will not warranty hinges that have been broken due to incorrect assembly.*

**WARNING- DO NOT FORCE HINGE OPEN BY HAND.**



#### How is the Pro-cuff different from other push to release systems?

The *Pro-cuff* QR has no mechanical moving parts.  
The *Pro-cuff* QR has no metal load bearing surfaces.  
The *Pro-cuff* QR is immune to salt ingress.  
The *Pro-cuff* QR can be re-assembled with the kite under load.  
The *Pro-cuff* QR will activate even when wrapped in your flying lines.  
All parts of the *Pro-cuff* QR can be user replaced.

#### What is the maximum release load for the Pro-cuff QR?

The QR has been tested to release with less than 10kg/22lbs of force at all loads below 150kg/330lbs. This is the standard safe operating load.

*Manufacture tolerances between moulded parts may cause the maximum release force to vary by +/- 5% in use.*

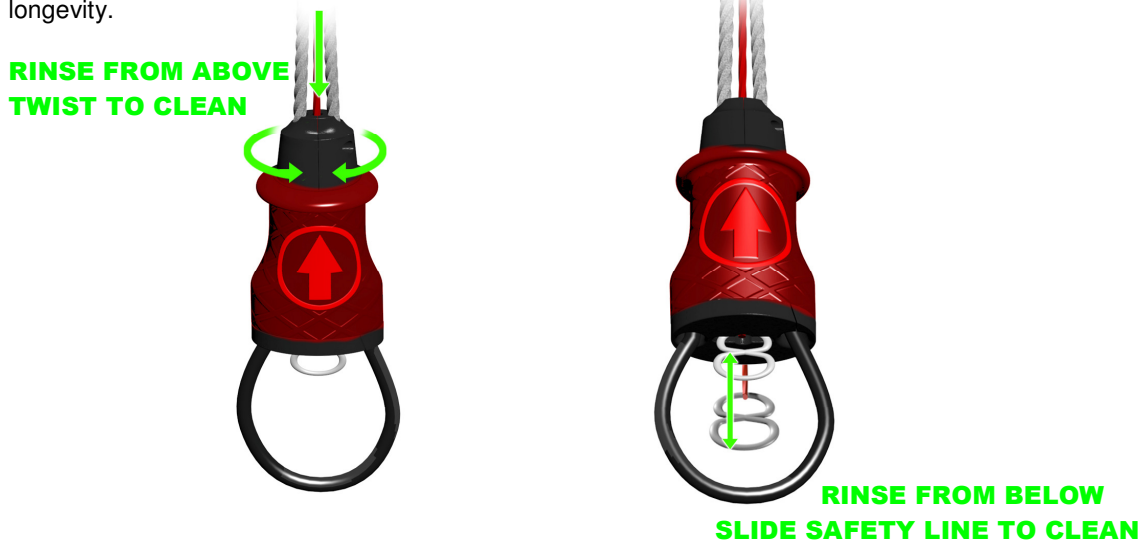
#### What is the maximum working load for the chickenloop?

The chickenloop assembly has exceeded a 200kg/440lbs static load test. We would not expect it to be subject to loads greater than this during kitesurfing. The *Pro-cuff* QR is designed to fail safe at loads above 300kg/660lbs.

Maximum load holding ability may vary with age and we recommend replacing the depower rope at least once every 12 months. Competition freestyle riders or riders who kite more than 500 hours per year may need to replace their chickenloop assembly more frequently than this.

#### How resistant is the Pro-cuff QR to contamination?

The *Pro-cuff* QR is designed so that sand and salt accumulation does not affect its function. We recommend that you rinse your QR with water before and after each session to ensure maximum longevity.



The *Pro-cuff* QR should be unaffected by the flying lines becoming wrapped around the depower line. In extreme circumstances however the *Redline/5<sup>th</sup>*-line itself may be wrapped up in the flying lines inhibiting depower of the kite. For this reason we recommend carrying a line knife.

### How does the depower set-up work?

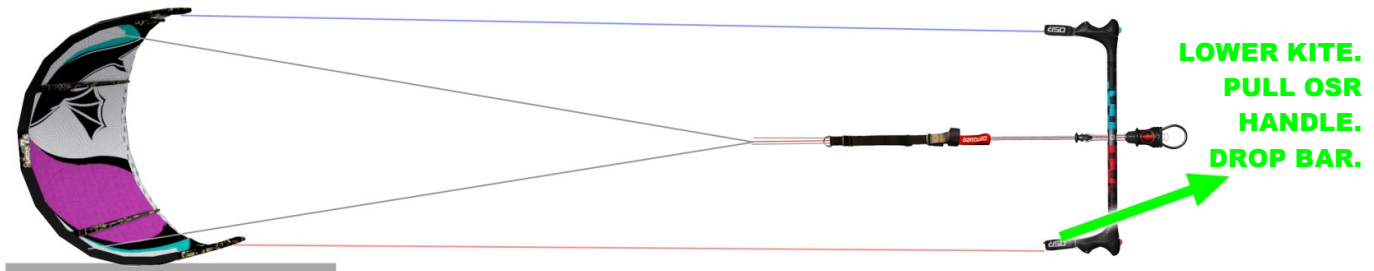
The RP-Bar and GP-Bar both use an above the bar 'pull-pull' trim-strap. Pull downwards on the **RED** handle to depower the kite and then pull down on the **GREY** handle to repower the kite.

**NB:** The trim-strap will not function correctly unless there is sufficient front line tension to pull it tight after you pull the **depower** or **repower** handles, the kite must be in the air, or the lines must be fully tension against a static object for the trim-strap to work.

Both bars use a 2:1 leverage ratio depower strap; for every 2 inches you pull the **RED** depower handle down towards you the front line length changes by 1 inch. This 2:1 ratio means it is easier to depower your kite in an emergency as you have mechanical advantage over 1:1 ratio set-up.

### What safety features are built into the bar?

In addition to the *Redline/5<sup>th</sup>*-line safety systems built into the RP and GP bars we also provide dual rear line OSR handles. To land the kite using the OSR handles you must first unhook the bar and lower the kite towards the ground. Grab the OSR handle and then drop the bar to depower and land the kite.



**Do not pull an OSR handle with the kite above your head or when still hooked into the bar- this could cause the kite to loop aggressively resulting in you being dragged out of control.**

### How does the dual-depower stopper work?

The dual-depower stopper will limit the travel of the bar allowing you set a comfortable range of travel to suit your preferred riding styles and arm length. To move the stopper slide it either up or down with your hand to the desired position.



Moving the stopper too far downwards will inhibit bar travel and minimize the available kite depower. As the stopper is designed to take the weight of the back lines and increase your riding comfort it is unlikely that you will be able to easily move the stopper upwards simply by pushing the bar.

## What spare parts are available?

Most parts of both bars are available as spares, either as individual items or as part of a replacement parts kit where suitable. The following list includes all replacement parts and kits for both the RP-Bar and the GP-Bar.

### RP Bar Depower Line Replacement Kit (V1 and V2)

- Red safety line
- Depower line with endings wrapped with Mark Cloth
- Allen key
- 2 Teflon bushing parts.
- 50cm thin line (for pulling the red line into the C-loop) lower quality flying line • 5cm heat shrink tubing

### RP Bar V2 Complete Chicken Loop Kit (Pro-cuff)

- Main body (V2)
- cuff (V2) • Swivel (V2) / 2x washer parts
- 4x bolts
- Pin
- 28cm chicken loop
- Allen key

### RP Bar V2 Chicken Loop Inner Hinge

- Main body (V2)
- 2x washer parts

### RP Bar Chicken Loop Replacement Small (V1 & V2)

- 28 cm chicken loop
- Secure pin
- Donkey stick short

### RP Bar Chicken Loop Replacement Large (V1, V2, FS)

- 42 cm chicken loop
- Secure pin
- Donkey stick large

### RP Bar Stopper Ball V2 (Also works with V1 RP-Bar)

- 1x Stopper Ball

### RP Bar Depower Strap (The depower strap remains unchanged from last season)

- Depower Strap

### RP Bar V2 Leader Lines

- 1x red leader line
- 1x blue leader line
- 1x blue OSR handle
- 1x red OSR handle
- 2x O-ring

### Quad line replacement sets

- Lines 3m
- Lines 5m
- Lines 10m
- Lines 20m
- Lines 20m + 3m Ext\*
- Lines 22m
- 4Lines 25 m

### RP Bar V2 Insert Replacement Kit- Sacrifice Inserts

- 2x half Delrin inserts
- 4x screws
- 1x allen key

### RP Bar V2 Single Frontline Safety Upgrade Kit (Available mid-season)

- 1x single frontline safety front flying line
- 1x single frontline safety Redline

### GP Bar Flying Line Replacement Kit

- 2x 23m back lines



- 2x 15m front lines
- 1x 19m 5th line

### RP Bar V2 Handlepass Leash

1x complete RP bar leash

### Freestyle Bar Handlepass Leash

1x complete freestyle bar leash

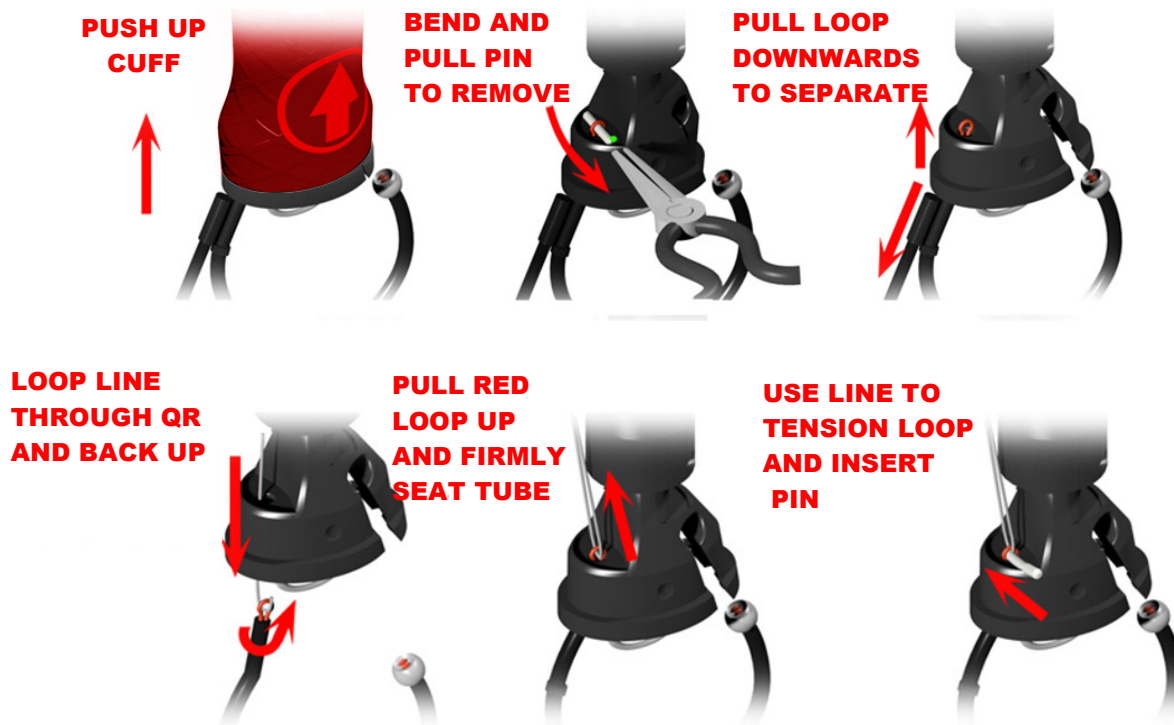
### What line lengths does the bar use?

The RP-Bar comes equipped with 20m flying lines + 3m extension lines. The extension lines are supplied separate from the flying lines on their own winder. We strongly recommend using the 20m line length for all current kite models, this will give the fastest turning and most responsive handling.

The GP-Bar comes with 20m + 3m extension lines including the 5<sup>th</sup>-line equipped safety set-up. Front flying lines on the GP-Bar have a V-split at 8m from the bar. The GP-Bar lines have been up-rated for competition use.

### How do I replace the chickenloop line?

All parts of the *Pro-cuff* QR are user replaceable. You will find replacing these parts easier at home than at the beach. You will need a pair of needle nose pliers and some spare flying line to replace the chickenloop.



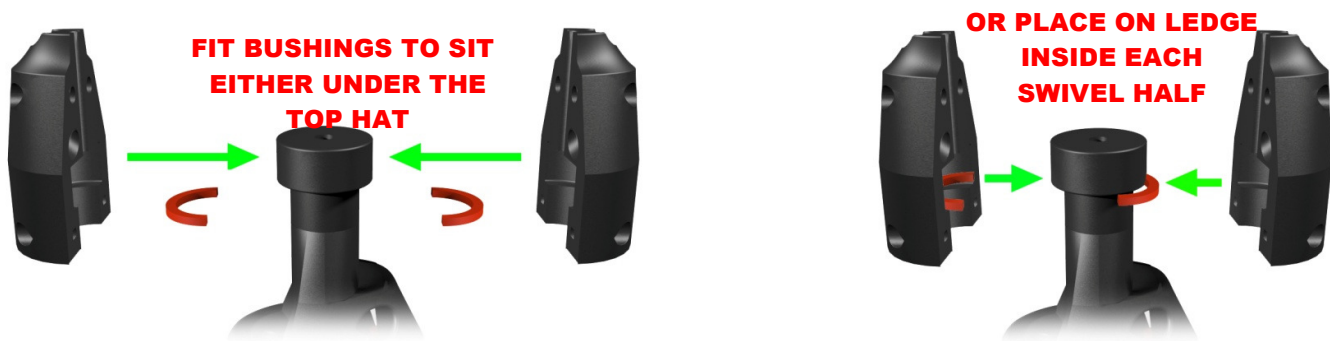
### What bar sizes are available?

42cm, 47cm and 52cm bars are available in the RP-Bar and 45cm and 50cm sizes are available in the GP-Bar.

### How does the under-bar swivel work?

The under-bar swivel is made from low friction glass reinforced nylon and contains two small Teflon impregnated bushings. The swivel is made from two identical halves that fit over the top of the QR. Because the depower line and safety lines pass through swivel you are able to twist the swivel by hand to remove front line twists from your flying lines.

We recommend that you flush your swivel out with water before and after every session to keep it in perfect operating condition. Should your swivel eventually wear out to extended use you can replace the swivel assembly and depower line. We recommend that you always replace the swivel parts whenever you replace the depower line.



To replace the swivel bushings, remove the four screws that hold the swivel together, prise out bushings with a flat bladed screwdriver and then reassemble as shown below.

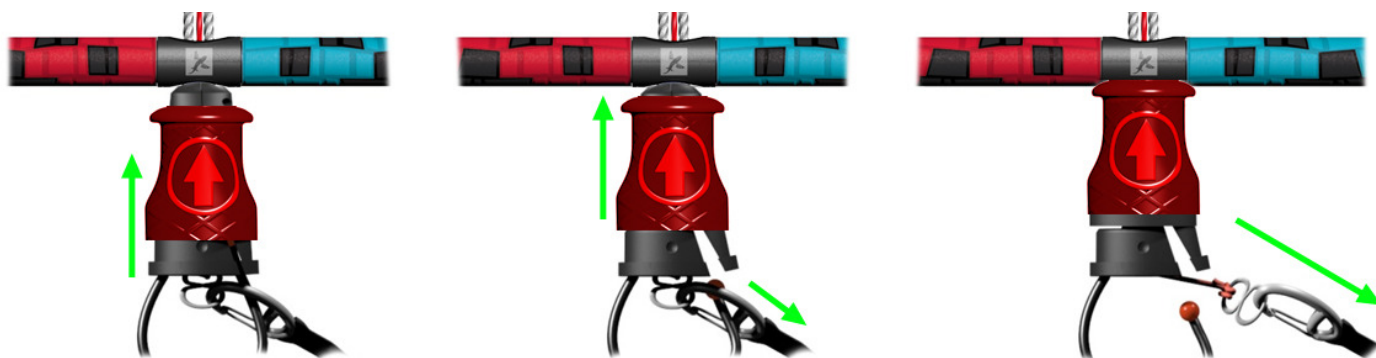
Make sure you fully tighten the screws once reassembled. Regularly flushing out the swivels will maximize the life of the bushings.

### What leashing options do I have?

There are two safety options with the *Redline* equipped RP-Bar, bypass leash and suicide leash. To use the standard bypass option you connect directly to the *Redline* safety ring beneath the chickenloop cuff as detailed below. Either unhooking and dropping the bar or activating the *Pro-cuff* QR will engage the *Redline* safety causing your kite to depower and fall from the sky. The bypass option over rides the stopper ball giving you the maximum available depower from the kite



Advanced riders who are willing to trade maximum depower for faster relaunch can choose to rig the suicide leash option, shown below. When attached as shown below the kite will remain powered even with the bar unhooked. Only when the *Pro-cuff* QR has been pushed upwards and activated will the kite depower and fall from the sky.



To rig in 'suicide' mode you must clip the karabiner over the chickenloop and into the leash ring. Even if you have dropped the bar or are riding unhooked your safety will not work fully until the *Pro-cuff* QR is activated.

*The suicide leash option is only recommended for experienced riders. The GP-Bar uses a 5<sup>th</sup> line system that can also be rigged as shown above for riders who wish to be able to unhook without activating their safety.*

### What features are included for unhooked riding?

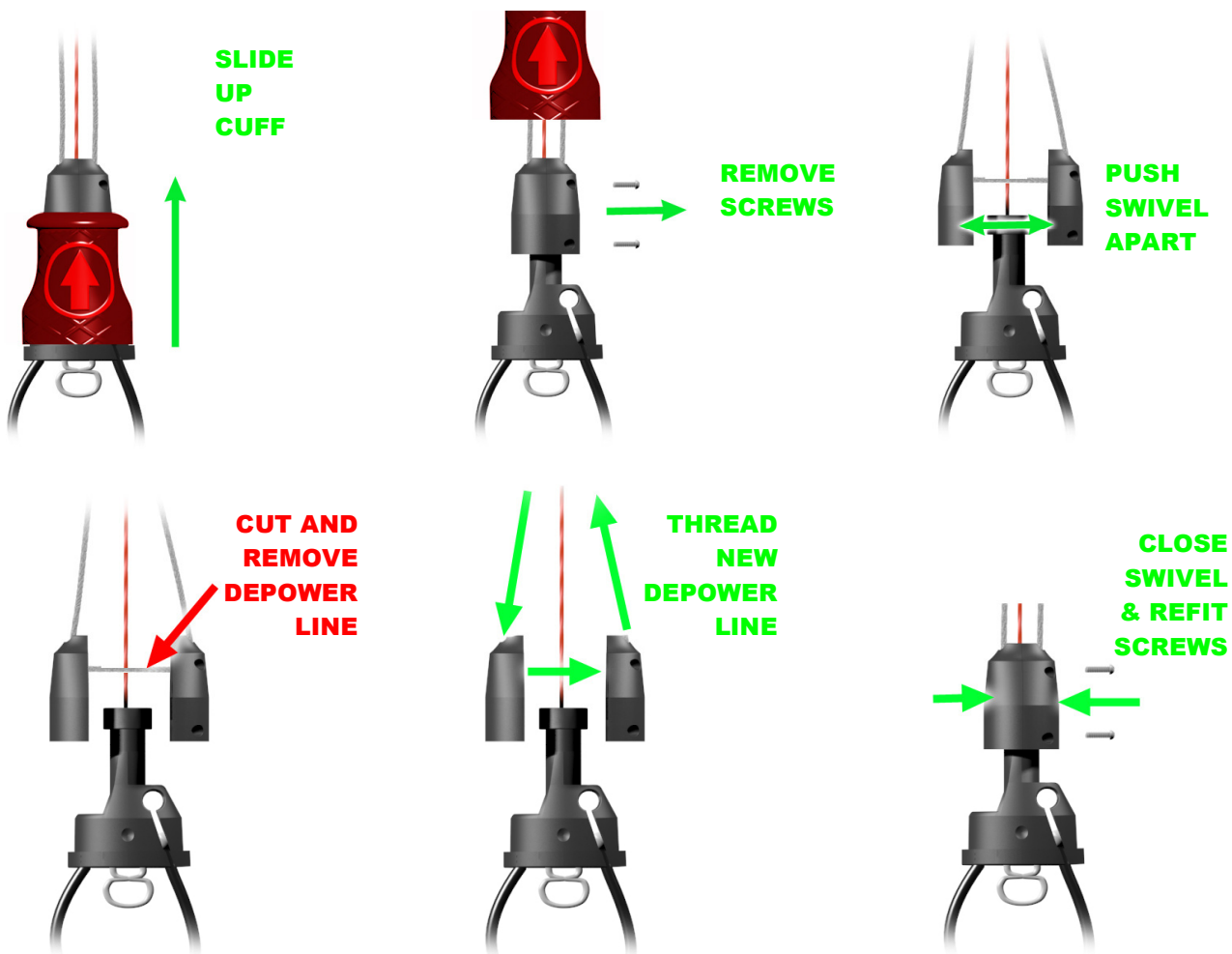
Both the RP and GP bars are equipped for unhooked riding. Both bars use the largest and softest bar ends design we have ever made, making them perfect for unhooked handle-passes and one handed kite loops.

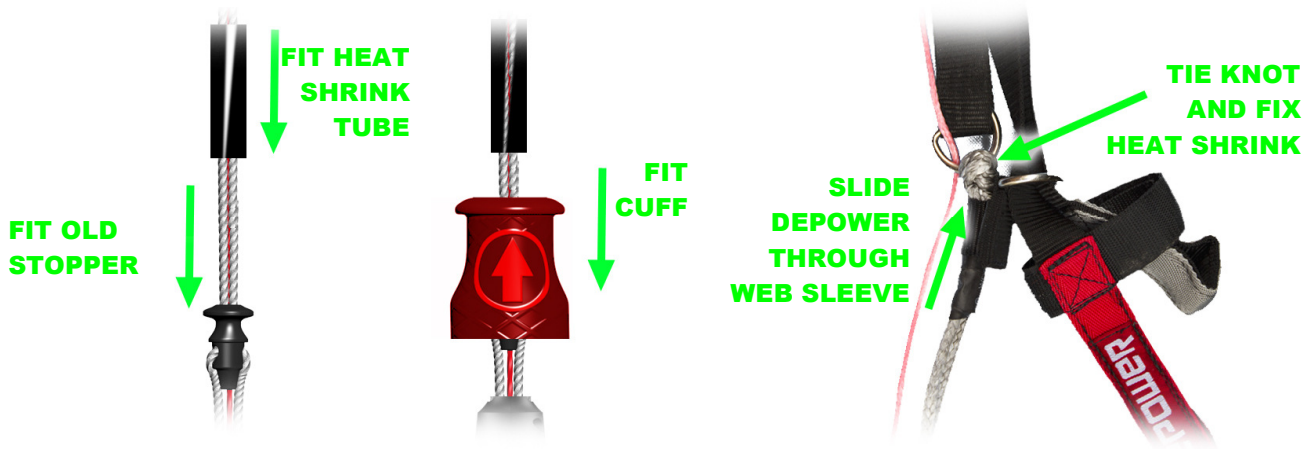
**UNDER-BAR SWIVEL AND 'SACRIFICE INSERTS' FIT TOGETHER WITH MALE/FEMALE FIT FOR EASY UN/HOOKING**



The upper most surface of the under-bar swivel is shaped to fit into the underside of the bar. This stops the chickenloop from flapping when the bar is unhooked and makes hooking back in easy without looking at your bar and harness.

### How do I replace the dual-depower rope on my RP-Bar?





To see how to tie the knot, please go to <http://www.bestkiteboarding.com/Videos?p=5&v=57>

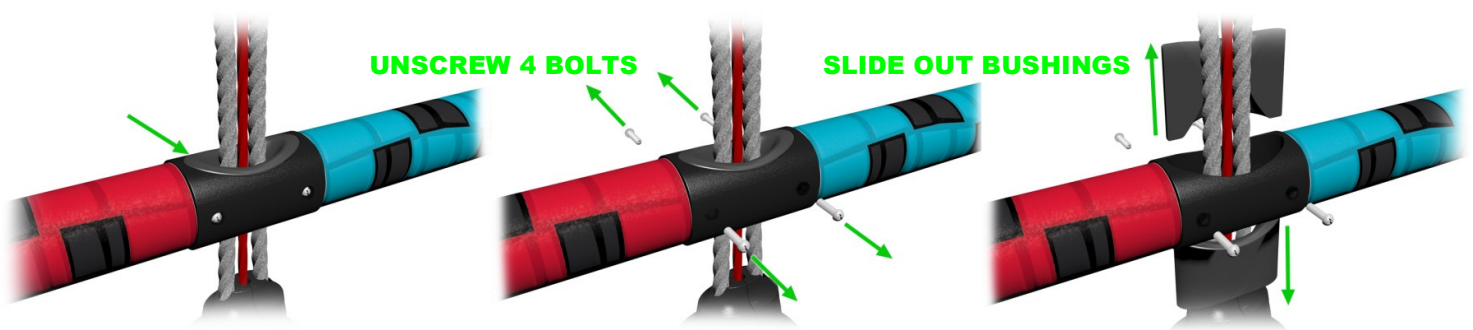
### How do I replace the depower rope on my GP-Bar?

The GP-Bar uses a unique spliced 8mm depower rope with the swivel halves spliced directly into the bottom of the rope to ensure maximum longevity. The replacement kit for the depower contains all the parts required to safely upgrade your depower line and swivel, we recommend that you replace all of these parts at the same time rather than using only part of the kit.

Cut your old depower rope off the ring at the bottom of the trim strap and re-tie your new depower using the correct knot, then seal the heat-shrink tube.

### How do I replace the bushings in my bar?

Both bars use our *Sacrifice Insert System*; this places two curved Delrin bushing in the center of the bar. The bushing are designed to wear through without your depower rope snapping. You should replace the bushing before they wear through completely.



To remove simply unscrew the four bolts from the center of the bar and then slide out the bushings. Replace in reverse order.

### What size is the chickenloop?

The RP-Bar chickenloop comes in two sizes. A standard 32cm size is provided with the RP-Bar. An increased size 42cm loop is available as an accessory item for riders who prefer a larger a loop to facilitate easier hooking and unhooking. The GP-Bar uses the 42cm chickenloop.

### Which size bar is best for my kite?

You can ride any of our kites on any of our bars. Larger kites will perform better on large bars and smaller kites will remain more docile in high winds on smaller bars. For kites 13m and above we recommend the large size bars. For kites 8m-14 any bar will work. For kites 8m and smaller we recommend you use the small bar sizes.